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Summary of Occupational Injuries and Illnesses and Fatalities In the Petroleum Industry

As Reported to the American Petroleum Institute, Covering Operations Subject to OSHA Recordkeeping Requirements Only for 1986

OCTOBER 1987

American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005

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American
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Institute

PETROLEUM INDUSTRY OCCUPATIONAL INJURY AND ILLNESS EXPERIENCE FOR 1986

Participants in the 1986 summary were asked to submit data following Bureau of Labor Statistics Recordkeeping Guidelines for Occupational Injuries and Illnesses - September 1986 Edition. The survey shows incidence rates per 200,000 work hours on the same basis as those reported by the Bureau of Labor Statistics.

This report is based on data collected by the API from 101 oil and gas companies employing over 263,000 persons with a work experience of more than 539 million hours. The Total Case Incidence Rate (i.e., total recordable cases per 100 fulltime workers or 200,000 hours worked) was found to be 3.46 for the year 1986 compared with 2.77 for 1985.

The Days Away From Work Incidence Rate (deaths plus cases involving days away from work) for the year 1986 averaged 1.08 per 200,000 hours worked compared with 1.05 for 1985. The ratio of workers to the number of Days Away From Work injuries during 1986 averaged 90 per injury as compared with 94 workers per injury in 1985. One death among petroleum workers was reported in 1986 for every 21,936 employees compared with one death for every 18,730 workers employed in 1985.

NOTE: Company participation in the API survey is voluntary, and changes from year to year.

The total figures for each company are shown in the following tables under the "All Functions" heading. Each company is listed numerically by identification number throughout the tabulations. The key to this identification system is found at the end of the report. In the individual function lists, the companies are arranged according to the magnitude of exposure hours.

NOTE:

Many of the companies participating in the 1986 Occupational Injury and Illness Survey supplied data concerning the number of employees and hours worked that on the surface appeared to be inconsistent with what is usually considered to be a normal range of hours worked by one individual in one year (i.e. 1900-2200 hours).

As a result of contacting those companies that submitted data that did not fall within the aforementioned range, the following reasons were cited as being responsible for the inconsistent figures:

- Due to the fluctuation in the number of employees during the course of the year as a consequence of industry-wide layoffs, the number of hours worked by those employees was recorded prior to their being laid off. However, at the time the data collection forms were completed, these individuals were not included as part of the total current workforce. Therefore, the number of employees appeared to be quite low as compared to the number of hours worked.

- Some companies reported having several employees on a 24 hour work schedule (this was especially true for pipeline operations) thereby recording an unusually high number of hours worked as compared to a relatively low number of employees.

- A few companies that were contacted reported employing numerous part-time employees which produced an unusually high number of employees as compared to a relatively low number of hours worked.

The 1986 Occupational Injury and Illness data should be viewed with these considerations in mind.

Additional copies of this summary may be obtained by writing to the American Petroleum Institute, Publications & Distribution Section, 1220 L Street, N.W., Washington, D.C. 20005.

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

1	2	3	4	5			6						7		
				Recordable Cases			Extent and Outcome of Injuries and Illnesses						Incidence Rates		
				a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.
								Lost Workday Cases							
Function	SIC	Number of Employees	Hours Worked Thousands	Injuries	Illnesses	Total	Fatalities	Total Cases	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatalities Plus Cases With Days Away From Work	Lost Workday Days Away From Work
Exploration		6,683	13,365	61	0	61	0	36	30	442	209	28	0.91	0.45	6.61
Production		22,494	46,780	831	33	864	2	438	266	5,469	1,720	587	3.69	1.15	23.38
E&P Not Sep.[1]		22,749	50,504	535	3	538	1	251	242	4,811	119	167	2.13	0.96	19.05
E&P Subtotal		51,926	110,648	1,427	36	1,463	3	725	538	10,722	2,048	782	2.64	0.98	19.38
Gas Processing	1321	10,994	21,974	351	4	355	1	139	131	2,548	58	222	3.23	1.20	23.19
Drilling	1381	1,284	2,677	243	1	244	0	61	59	976	141	161	18.23	4.41	72.93
Petrochemical Mftg	2800	18,566	38,367	640	29	669	0	257	91	3,341	3,064	409	3.49	0.47	17.42
Refining	2911	41,361	84,147	2,498	56	2,554	5	1,094	500	9,075	9,669	1,214	6.07	1.20	21.57
Marketing Whole.	5171	20,616	43,058	842	5	847	1	598	470	7,068	2,422	279	3.93	2.19	32.83
Marketing Retail	5541	23,085	40,429	1,025	6	1,031	0	574	492	8,384	4,370	466	5.10	2.43	41.47
Mrkt Not Sep[2]		2,189	4,570	81	1	82	0	29	13	455	168	54	3.59	0.57	19.91
Mrkt. Subtotal		45,890	88,057	1,948	12	1,960	1	1,201	975	15,907	6,960	799	4.45	2.22	36.13

Incidence Rates (Column 7) are calculated as follows:

$$\text{Column 7(j)} = \frac{\text{Column 5(c)} \times 200{,}000}{\text{Column 4} \times 1{,}000} \qquad \text{Column 7(k)} = \frac{\text{Column 6(d)} + \text{6(f)} \times 200{,}000}{\text{Column 4} \times 1{,}000} \qquad \text{Column 7(l)} = \frac{\text{Column 6(g)} \times 200{,}000}{\text{Column 4} \times 1{,}000}$$

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

1	2	3	4	5			6						7		
				Recordable Cases			Extent and Outcome of Injuries and Illnesses						Incidence Rates		
				a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.
								Lost Workday Cases							
Function	SIC	Number of Employees	Hours Worked Thousands	Injuries	Illnesses	Total	Fatalities	Total Cases	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatalities Plus Cases With Days Away From Work	Lost Workday-Days Away From Work
Pipeline-Liquid	4610	6,020	13,978	231	3	234	0	81	71	1,869	156	145	3.35	1.02	26.74
Pipeline - Gas	4922	22,925	45,823	924	30	954	2	481	220	4,273	1,252	642	4.16	0.97	18.65
Pipe. Not Sep[3]		4,097	8,027	101	3	104	0	42	32	410	93	63	2.59	0.80	10.22
Pipeline Sub.		33,042	67,828	1,256	36	1,292	2	604	323	6,551	1,501	850	3.81	0.96	19.32
Marine Tanker	4400	777	2,771	24	0	24	0	16	16	634	0	8	1.73	1.15	45.76
Marine Inland		506	1,805	27	3	30	0	12	6	195	53	18	3.32	0.66	21.60
Mar. Not Sep[4]		242	754	5	0	5	0	4	0	0	103	1	1.33	0.00	0.00
Marine Subtotal		1,525	5,330	56	3	59	0	32	22	829	156	27	2.21	0.83	31.10
Research & Dev.		9,189	18,324	165	14	179	0	69	22	234	565	108	1.95	0.24	2.55
General Services		5,240	10,475	139	4	143	0	78	48	641	249	95	2.73	0.92	12.24
Admin., Eng., & Ot		44,804	91,465	433	13	446	0	261	151	2,280	761	198	0.98	0.33	4.99
Func. Not Sep[5]		0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Total		263,226	539,309	9,114	207	9,321	12	4,402	2,911	52,700	25,281	5,165	3.46	1.08	19.54

Incidence Rates (Column 7) are calculated as follows:

Column 7(j) = $\frac{\text{Column 5(c)} \times 200,000}{\text{Column 4} \times 1,000}$ Column 7(k) = $\frac{\text{Column 6(d)} + \text{6(f)} \times 200,000}{\text{Column 4} \times 1,000}$ Column 7(l) = $\frac{\text{Column 6(g)} \times 200,000}{\text{Column 4} \times 1,000}$

[1]E&P data unable to be separated into Exploration or Production functions.
[2]Marketing data unable to be separated into Wholesale or Retail functions.
[3]Pipeline data unable to be separated into Liquid or Gas functions.
[4]Marine data unable to be separated into Tanker and Inland.
[5]Unable to be separated into a specific function.

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
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The following code will indicate the functions for which each company reported:

a - Exploration	g - Marketing - Wholesale	k - Marine - Tanker
b - Production	h - Marketing - Retail	l - Marine - Inland
(ab) - Exploration & Production Not Sep.	(gh) - Marketing Not Separated	(kl) - Marine Not Separated
c - Gas Processing	i - Pipeline - Liquid	m - Research & Development
d - Drilling	j - Pipeline - Gas	n - General Services
e - Petrochemical Manufacturing	(ij) - Pipeline Not Separated	o - Administration, Engineering & Other
f - Refining		

			Recordable Cases			Extent and Outcome of Injuries and Illnesses						Incidence Rates			
							Lost Workday Cases								
Co. No.	Number of Employees	Hours Worked Thousands	Injuries	Illnesses	Total	Fatalities	Total Cases	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatalities Plus Cases With Days Away From Work	Lost Workday Days Away From Work	Function
ALL FUNCTIONS															
Total	263,226	539,309	9,114	207	9,321	12	4,402	2,911	52,700	25,281	5,165	3.46	1.08	19.54	
00010	35	71	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	j
00012	123	267	18	0	18	0	16	10	73	12	8	13.48	7.49	54.68	f
00013	13,451	27,128	538	12	550	0	203	173	3,797	1,266	347	4.05	1.28	27.99	afghilmno
00015	30	65	7	0	7	0	7	3	36	74	4	21.54	9.23	110.77	g
00018	715	1,461	16	0	16	0	11	9	163	0	7	2.19	1.23	22.31	(ab)c
00020	30	57	6	0	6	0	1	1	6	6	5	20.97	3.50	20.97	f
00021	114	237	4	0	4	0	4	0	0	0	4	3.37	0.00	0.00	abdg
00022	88	220	1	0	1	0	1	0	0	0	1	0.91	0.00	0.00	ado
00023	3,543	7,285	52	0	52	0	26	26	276	0	32	1.43	0.71	7.58	(ab)cdefio
00024	27,902	60,760	1,005	21	1,026	2	573	447	8,551	2,231	451	3.38	1.48	28.15	(ab)(ij)cfgho
00025	54	110	3	0	3	0	0	0	0	0	3	5.45	0.00	0.00	o
00026	60	125	10	1	11	0	11	1	7	0	10	17.63	1.60	11.22	fgo
00027	3,865	8,359	68	0	68	0	19	19	589	23	49	1.63	0.45	14.09	(ab)co
00028	30	62	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	g
00030	1,266	2,480	53	0	53	0	53	21	377	25	32	4.27	1.69	30.40	j
00031	3,343	6,942	135	4	139	0	41	37	819	63	95	4.00	1.07	23.59	j
00032	14,324	31,477	231	0	231	2	93	23	1,095	1,064	136	1.47	0.16	6.96	abcfhmno(gh)(ij)(kl)
00033	17	40	1	0	1	0	1	1	5	0	0	5.01	5.01	25.07	i
00034	91	192	8	0	8	0	6	6	44	0	0	8.33	6.25	45.83	fo
00035	801	1,767	15	0	15	0	15	3	80	0	12	1.70	0.34	9.05	abco
00036	9	18	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	o
00037	3,524	7,068	63	0	63	0	23	23	869	0	40	1.78	0.65	24.59	c
00038	156	1,600	7	0	7	0	0	0	0	0	0	0.87	0.00	0.00	i
00039	8,361	17,390	154	13	167	0	68	7	203	692	99	1.92	0.08	2.33	egmo
00042	3,263	6,130	32	2	34	0	13	4	25	145	19	1.11	0.13	0.82	mno
00043	595	1,222	45	1	46	0	17	17	28	75	29	7.53	2.78	4.53	cfj
00045	45	91	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	a
00046	263	491	11	0	11	0	8	3	50	190	3	4.48	1.22	20.37	f
00048	41	80	1	0	1	0	1	0	0	0	1	2.50	0.00	0.00	bc(gh)
00050	93	201	7	0	7	0	0	6	156	0	1	6.97	5.97	155.22	f

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ALL FUNCTIONS (continued)															
00053	126	314	12	0	12	0	1	1	18	0	11	7.65	0.64	11.48	f
00054	1,628	3,334	86	2	88	0	45	45	637	0	43	5.28	2.70	38.21	j
00055	124	235	8	0	8	0	1	1	4	0	7	6.81	0.85	3.40	i
00056	2,371	4,577	150	6	156	1	76	17	430	436	79	6.82	0.79	18.79	j
00058	1,747	3,631	19	0	19	0	13	12	203	0	6	1.05	0.66	11.18	abcfghimo
00059	36	76	0	1	1	0	1	1	4	0	0	2.63	2.63	10.53	abno
00060	291	553	5	0	5	0	0	0	0	0	5	1.81	0.00	0.00	l
00062	72	136	1	0	1	0	1	1	20	0	0	1.47	1.47	29.41	abo
00064	3,876	8,134	226	0	226	0	160	74	825	1,104	66	5.56	1.82	20.29	hjo
00065	9,213	17,703	328	6	334	0	180	148	2,743	901	154	3.77	1.67	30.99	abcdfgimno
00068	258	526	11	0	11	0	6	1	40	63	4	4.18	0.38	15.21	e
00070	211	443	23	1	24	0	7	7	284	37	17	10.84	3.16	128.27	cjno(gh)
00074	556	1,105	37	2	39	0	39	10	103	34	29	7.06	1.81	18.64	bjno
00075	792	1,743	23	0	23	0	20	2	33	134	3	2.64	0.23	3.79	bfgo
00077	43	78	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	co
00078	2,260	4,356	97	1	98	0	20	20	609	0	78	4.50	0.92	27.96	j
00079	330	643	27	0	27	0	8	7	435	5	19	8.40	2.18	135.37	f
00083	102	232	10	0	10	0	10	6	292	0	4	8.62	5.17	251.72	ij
00087	152	324	13	0	13	0	10	2	24	8	3	8.03	1.24	14.83	f
00089	41	95	4	0	4	0	0	0	0	0	0	8.42	0.00	0.00	cjo
00090	18,749	38,619	359	11	370	1	198	48	824	2,228	172	1.92	0.25	4.27	(ab)(gh)(ij)cefmno
00091	306	540	3	0	3	0	1	1	58	0	0	1.11	0.37	21.48	i
00092	36	75	3	0	3	0	3	1	5	0	2	8.00	2.67	13.33	i
00093	55	99	6	0	6	0	3	3	8	0	3	12.16	6.08	16.21	io
00094	33	41	1	0	1	0	1	1	5	66	0	4.88	4.88	24.39	jo
00095	1,866	3,813	83	0	83	0	57	10	75	326	26	4.35	0.52	3.93	o
00097	302	617	22	0	22	0	16	16	148	65	6	7.14	5.19	48.01	bfo
00100	114	223	1	0	1	0	0	0	0	0	1	0.90	0.00	0.00	cgo
00102	348	803	6	0	6	0	6	3	16	0	3	1.49	0.75	3.99	(ab)
00104	1,475	3,024	46	1	47	0	47	5	57	0	42	3.11	0.33	3.77	j
00106	27,815	55,635	1,133	19	1,152	1	443	207	2,175	3,552	708	4.14	0.75	7.82	abefgiklmo
00107	11,729	25,136	419	41	460	0	203	174	3,076	668	256	3.66	1.38	24.47	abcefghiklmo
00108	8,757	16,879	335	0	335	0	187	172	3,256	630	148	3.97	2.04	38.58	(ab)cdfghio
00109	30,220	62,578	862	33	895	0	331	216	4,112	1,919	564	2.86	0.69	13.14	abcdefgmno(ij)(kl)
00111	3,653	8,093	197	0	197	0	20	20	485	0	177	4.87	0.49	11.99	afijo(gh)
00113	220	457	33	0	33	0	14	9	623	121	0	14.43	3.94	272.40	abdgho(ij)
00114	1,270	2,315	25	0	25	1	6	3	117	126	18	2.16	0.35	10.11	j
00115	734	1,460	44	0	44	0	11	11	274	597	33	6.03	1.51	37.53	e
00116	138	291	5	0	5	0	5	5	30	0	0	3.44	3.44	20.62	f
00117	275	489	17	0	17	0	17	8	117	0	9	6.96	3.27	47.67	bh
00118	11,209	22,538	426	5	431	2	189	77	1,773	1,752	240	3.82	0.70	15.73	(ab)(kl)cfghimo

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
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Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work	Function
ALL FUNCTIONS (continued)															
00120	1,920	3,173	37	1	38	0	38	21	485	26	17	2.40	1.32	30.57	j
00121	351	795	11	0	11	0	11	11	315	0	0	2.77	2.77	79.25	f
00123	1,859	3,746	59	0	59	0	17	14	224	92	42	3.15	0.75	11.96	(ab)(ij)cfho
00124	225	459	9	0	9	0	5	1	4	15	4	3.92	0.44	1.74	j
00125	164	357	7	0	7	0	7	43	45	11	3	3.92	24.10	25.22	bco
00127	6,691	13,790	210	0	210	0	98	81	1,697	327	112	3.05	1.17	24.61	befgmno
00131	3,090	5,868	45	2	47	0	24	14	173	358	23	1.60	0.48	5.90	j
00135	103	215	8	0	8	0	8	2	48	0	7	7.44	1.86	44.65	af
00136	3,855	6,041	311	0	311	0	1	136	153	0	174	10.30	4.50	5.07	cfhio
00137	225	460	15	0	15	0	2	0	0	34	12	6.52	0.00	0.00	fi
00138	81	166	6	0	6	0	2	2	24	0	4	7.23	2.41	28.93	fg
00139	679	1,295	44	0	44	0	44	6	354	408	23	6.80	0.93	54.67	f
00140	885	1,841	29	0	29	0	21	21	256	0	7	3.15	2.28	27.81	abcgo
00151	1,424	2,554	54	0	54	0	54	54	943	0	0	4.23	4.23	73.84	c
00152	1,463	2,988	52	0	52	0	28	28	0	0	52	3.48	1.87	0.00	abdfgino
00158	10	21	1	0	1	0	0	1	5	0	0	9.62	9.62	48.08	n
00162	1,379	3,020	54	13	67	0	75	8	224	0	67	4.44	0.53	14.83	j
00168	44	87	2	0	2	0	0	0	0	0	2	4.62	0.00	0.00	co
00170	4,734	7,673	267	1	268	0	155	136	3,985	3,318	112	6.99	3.54	103.87	cefghijno
00173	248	538	17	0	17	0	2	2	65	0	15	6.32	0.74	24.16	f
00176	111	229	5	0	5	0	0	0	0	0	5	4.37	0.00	0.00	f
00177	2,157	4,501	194	0	194	0	194	111	2,024	0	83	8.62	4.93	89.94	bfgmo
00179	613	1,276	31	0	31	1	8	8	66	0	22	4.86	1.41	10.34	abdo
00186	260	592	20	0	20	0	8	8	98	31	12	6.76	2.70	33.13	f
00188	23	48	2	0	2	0	2	2	51	0	0	8.33	8.33	212.50	f
00189	46	90	14	0	14	1	14	7	152	0	7	31.11	17.78	337.78	fgio
00190	188	358	7	7	14	0	14	8	55	0	11	7.82	4.47	30.73	f
00191	498	1,267	4	0	4	0	1	1	68	23	23	0.63	0.16	10.73	abco
00192	95	421	2	0	2	0	2	0	0	0	2	0.95	0.00	0.00	fo
00193	40	83	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	abgno

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
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Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
EXPLORATION														
Total	6,683	13,365	61	0	61	0	36	30	442	209	28	0.91	0.45	6.61
00106	1,596	3,192	8	0	8	0	3	2	4	5	5	0.50	0.13	0.25
00109	1,164	2,429	10	0	10	0	9	6	53	0	1	0.82	0.49	4.36
00107	1,041	2,084	8	0	8	0	6	6	41	53	2	0.77	0.58	3.93
00032	821	1,546	8	0	8	0	2	2	20	151	6	1.03	0.26	2.59
00065	537	973	3	0	3	0	1	1	2	0	2	0.62	0.21	0.41
00013	385	757	19	0	19	0	10	10	246	0	9	5.02	2.64	65.01
00035	253	523	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00179	207	431	1	0	1	0	1	1	2	0	0	0.46	0.46	0.93
00058	154	320	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00111	130	275	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00140	128	266	1	0	1	0	1	1	29	0	0	0.75	0.75	21.78
00191	78	170	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00021	49	102	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00045	45	91	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00022	27	71	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00152	24	47	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00062	20	38	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00135	11	22	3	0	3	0	3	1	45	0	3	27.27	9.09	409.09
00059	6	13	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00193	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00113	2	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
PRODUCTION														
Total	22,494	46,780	831	33	864	2	438	266	5,469	1,720	587	3.69	1.15	23.38
00109	7,892	16,417	408	16	424	0	135	67	1,720	769	289	5.17	0.82	20.95
00106	5,170	10,340	70	0	70	0	29	29	504	0	41	1.35	0.56	9.75
00107	3,058	6,130	110	15	125	0	53	53	821	109	72	4.08	1.73	26.79
00065	2,508	5,273	90	1	91	0	51	44	938	191	40	3.45	1.67	35.58
00032	1,733	3,848	24	0	24	0	6	1	152	31	18	1.25	0.05	7.90
00140	476	990	22	0	22	0	16	16	221	0	5	4.44	3.23	44.64
00177	328	860	46	0	46	0	46	14	338	0	32	10.70	3.26	78.60

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PRODUCTION (continued)														
00035	234	607	4	0	4	0	4	2	79	0	2	1.32	0.66	26.03
00191	238	501	4	0	4	0	1	1	68	23	3	1.60	0.40	27.14
00179	187	389	27	0	27	1	6	6	63	0	20	13.88	3.60	32.39
00058	186	386	1	0	1	0	1	1	2	0	0	0.52	0.52	1.04
00127	125	304	9	0	9	0	4	4	87	0	5	5.92	2.63	57.24
00125	80	165	5	0	5	0	5	2	32	11	3	6.07	2.43	38.82
00021	56	116	4	0	4	0	4	0	0	0	4	6.87	0.00	0.00
00152	43	85	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00075	36	75	1	0	1	0	1	0	0	11	0	2.67	0.00	0.00
00113	34	71	4	0	4	0	1	1	42	0	0	11.27	2.82	118.33
00048	34	67	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00062	28	53	1	0	1	0	1	1	20	0	0	3.77	3.77	75.47
00097	23	48	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00059	13	29	0	1	1	0	1	1	4	0	0	6.90	6.90	27.59
00074	9	16	1	0	1	0	1	0	0	0	1	12.56	0.00	0.00
00117	2	7	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00193	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00090	0	0	0	0	0	1	72	23	378	575	52	N/A	N/A	N/A
EXPLORATION & PRODUCTION - NOT SEPARATED														
Total	22,749	50,504	535	3	538	1	251	242	4,811	119	167	2.13	0.96	19.05
00024	8,380	20,456	224	0	224	1	161	157	3,361	109	62	2.19	1.54	32.86
00090	5,263	10,926	121	3	124	0	0	0	0	0	0	2.27	0.00	0.00
00108	3,113	6,612	43	0	43	0	27	27	115	0	16	1.30	0.82	3.48
00118	2,758	5,224	86	0	86	0	30	30	573	0	56	3.29	1.15	21.94
00027	1,892	4,239	32	0	32	0	13	13	561	10	19	1.51	0.61	26.47
00023	530	1,273	13	0	13	0	4	4	23	0	9	2.04	0.63	3.61
00018	410	826	10	0	10	0	10	8	162	0	2	2.42	1.94	39.23
00102	348	803	6	0	6	0	6	3	16	0	3	1.49	0.75	3.99
00123	55	145	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
GAS PROCESSING														
Total	10,994	21,974	351	4	355	1	139	131	2,548	58	222	3.23	1.20	23.19
00037	3,524	7,068	63	0	63	0	23	23	869	0	40	1.78	0.65	24.59
00151	1,424	2,554	54	0	54	0	54	54	943	0	0	4.23	4.23	73.84

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GAS PROCESSING (continued)														
00024	1,001	2,073	30	0	30	0	2	2	55	21	28	2.89	0.19	5.31
00109	932	1,900	21	0	21	0	5	5	67	0	16	2.21	0.53	7.05
00027	818	1,655	23	0	23	0	2	2	23	0	21	2.78	0.24	2.78
00107	404	808	9	3	12	0	4	4	30	0	8	2.97	0.99	7.43
00032	373	807	7	0	7	1	0	0	0	0	6	1.73	0.25	0.00
00090	378	785	2	0	2	0	1	1	15	0	1	0.51	0.25	3.82
00018	305	635	6	0	6	0	1	1	1	0	5	1.89	0.31	0.31
00023	245	512	8	0	8	0	4	4	19	0	4	3.13	1.56	7.42
00108	200	367	8	0	8	0	1	1	2	0	7	4.36	0.54	1.09
00123	170	349	9	0	9	0	4	4	62	0	5	5.16	2.29	35.55
00065	180	347	19	0	19	0	9	9	40	0	10	10.95	5.19	23.05
00118	177	329	15	0	15	0	1	1	40	0	14	9.12	0.61	24.32
00035	144	292	8	0	8	0	8	0	0	0	8	5.48	0.00	0.00
00070	134	289	22	1	23	0	6	6	275	37	17	15.93	4.16	190.44
00043	111	239	13	0	13	0	2	2	33	0	11	10.88	1.67	27.62
00170	94	189	7	0	7	0	0	0	0	0	7	7.42	0.00	0.00
00100	90	177	1	0	1	0	0	0	0	0	1	1.13	0.00	0.00
00058	75	155	5	0	5	0	3	3	57	0	2	6.45	3.87	73.55
00136	54	108	12	0	12	0	5	5	0	0	7	22.22	9.26	0.00
00168	38	77	2	0	2	0	0	0	0	0	2	5.17	0.00	0.00
00125	23	59	2	0	2	0	2	1	13	0	1	6.82	3.41	44.35
00191	26	54	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00089	23	51	3	0	3	0	0	2	2	0	0	11.76	7.84	7.84
00077	28	49	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00140	16	33	1	0	1	0	1	1	2	0	0	6.01	6.01	12.02
00048	7	13	1	0	1	0	1	0	0	0	1	15.38	0.00	0.00
DRILLING														
Total	1,284	2,677	243	1	244	0	61	59	976	141	161	18.23	4.41	72.93
00108	550	1,126	116	0	116	0	28	28	145	0	88	20.60	4.97	25.75
00109	382	817	78	0	78	0	20	20	706	45	58	19.09	4.90	172.83
00065	101	209	10	1	11	0	8	7	125	96	3	10.53	6.70	119.62
00113	89	181	27	0	27	0	0	0	0	0	0	29.76	0.00	0.00
00152	89	179	9	0	9	0	4	4	0	0	9	10.08	4.48	0.00
00179	62	129	2	0	2	0	0	0	0	0	2	3.10	0.00	0.00
00022	5	23	1	0	1	0	1	0	0	0	1	8.65	0.00	0.00
00021	6	12	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
PETROCHEMICALS MANUFACTURING														
Total	18,566	38,367	640	29	669	0	257	91	3,341	3,064	409	3.49	0.47	17.42

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PETROCHEMICALS MANUFACTURING (continued)														
00039	5,250	10,919	139	13	152	0	61	5	1,111	655	89	2.78	0.09	20.35
00090	3,880	8,038	67	2	69	0	28	7	98	641	41	1.72	0.17	2.44
00106	3,347	6,694	216	10	226	0	89	16	678	870	137	6.75	0.48	20.26
00127	2,869	5,960	116	0	116	0	59	48	1,119	238	57	3.89	1.61	37.55
00109	1,883	4,066	41	4	45	0	2	2	7	0	43	2.21	0.10	0.34
00115	734	1,460	44	0	44	0	11	11	274	597	33	6.03	1.51	37.53
00023	300	614	5	0	5	0	1	1	14	0	4	1.63	0.33	4.56
00068	258	526	11	0	11	0	6	1	40	63	4	4.18	0.38	15.21
00170	24	47	1	0	1	0	0	0	0	0	1	4.28	0.00	0.00
00107	21	43	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
REFINING														
Total	41,361	84,147	2,498	56	2,554	5	1,094	500	9,075	9,669	1,214	6.07	1.20	21.57
00024	7,918	16,107	526	13	539	1	243	152	2,211	1,504	0	6.69	1.90	27.45
00106	4,901	9,802	589	0	589	1	171	29	590	2,283	417	12.02	0.61	12.04
00109	4,473	9,160	113	6	119	0	60	19	303	1,051	59	2.60	0.41	6.62
00107	2,752	5,827	195	21	216	0	61	33	939	506	155	7.41	1.13	32.23
00118	2,569	5,379	126	2	128	2	55	8	271	950	71	4.76	0.37	10.08
00090	2,523	5,248	64	2	66	0	36	4	132	669	30	2.52	0.15	5.03
00032	1,732	3,684	107	0	107	0	41	7	85	314	66	5.81	0.38	4.61
00127	1,776	3,638	74	0	74	0	32	26	477	89	42	4.07	1.43	26.22
00065	1,823	3,582	60	0	60	0	30	8	291	587	30	3.35	0.45	16.25
00013	1,601	3,312	125	2	127	0	43	37	687	112	84	7.67	2.23	41.49
00023	1,039	1,783	19	0	19	0	14	14	207	0	10	2.13	1.57	23.22
00058	666	1,385	6	0	6	0	4	3	23	0	2	0.87	0.43	3.32
00177	703	1,364	50	0	50	0	50	29	216	0	21	7.33	4.25	31.67
00108	667	1,311	28	0	28	0	23	8	325	607	5	4.27	1.22	49.58
00139	679	1,295	44	0	44	0	44	6	354	408	23	6.80	0.93	54.67
00075	366	856	20	0	20	0	18	2	33	110	2	4.67	0.47	7.71
00043	417	850	30	1	31	0	15	15	25	75	16	7.29	3.53	5.81
00121	351	795	11	0	11	0	11	11	315	0	0	2.77	2.77	79.25
00123	345	729	12	0	12	0	5	2	41	92	7	3.29	0.55	11.25
00136	440	710	37	0	37	0	11	11	18	0	25	10.42	3.10	5.07
00170	359	706	20	1	21	0	11	1	88	23	9	5.95	0.28	24.93
00111	310	653	19	0	19	0	5	5	165	0	14	5.82	1.53	50.54
00079	330	643	27	0	27	0	8	7	435	5	19	8.40	2.18	135.37
00186	260	592	20	0	20	0	8	8	98	31	12	6.76	2.70	33.13

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						REFINING (continued)								
00173	248	538	17	0	17	0	2	2	65	0	15	6.32	0.74	24.16
00046	263	491	11	0	11	0	8	3	50	190	3	4.48	1.22	20.37
00137	204	411	12	0	12	0	2	0	0	34	12	5.84	0.00	0.00
00190	188	358	7	7	14	0	14	8	55	0	11	7.82	4.47	30.73
00097	166	346	22	0	22	0	0	0	0	0	0	12.72	0.00	0.00
00087	152	324	13	0	13	0	10	2	24	8	3	8.03	1.24	14.83
00053	126	314	12	0	12	0	1	1	18	0	11	7.65	0.64	11.48
00116	138	291	5	0	5	0	5	5	30	0	0	3.44	3.44	20.62
00152	145	290	2	0	2	0	1	1	0	0	2	1.38	0.69	0.00
00012	123	267	18	0	18	0	16	10	73	12	8	13.48	7.49	54.68
00176	111	229	5	0	5	0	0	0	0	0	5	4.37	0.00	0.00
00050	93	201	7	0	7	0	0	6	156	0	1	6.97	5.97	155.22
00135	92	193	5	0	5	0	5	1	3	0	4	5.18	1.04	3.11
00138	75	153	5	0	5	0	2	2	24	0	3	6.54	2.62	31.39
00034	48	103	6	0	6	0	4	4	33	0	0	11.65	7.77	64.08
00020	30	57	6	0	6	0	1	1	6	6	5	20.97	3.50	20.97
00026	25	52	10	1	11	0	11	1	7	0	10	42.31	3.85	26.92
00188	23	48	2	0	2	0	2	2	51	0	0	8.33	8.33	212.50
00192	95	42	2	0	2	0	2	0	0	0	2	9.51	0.00	0.00
00189	16	30	9	0	9	1	9	6	151	3	0	60.00	46.67	1007
						MARKETING - WHOLESALE								
Total	20,616	43,058	842	5	847	1	598	470	7,068	2,422	279	3.93	2.19	32.83
00109	4,153	8,776	81	1	82	0	54	52	1,112	10	28	1.87	1.19	25.34
00024	3,915	8,142	109	0	109	0	80	80	1,483	517	29	2.68	1.97	36.43
00106	2,011	4,023	116	0	116	0	94	94	0	0	22	5.77	4.67	0.00
00107	1,959	3,928	52	1	53	0	43	43	470	0	10	2.70	2.19	23.93
00118	1,772	3,686	107	0	107	0	64	9	185	632	43	5.81	0.49	10.04
00032	1,293	3,499	39	0	39	1	25	3	274	274	13	2.23	0.23	15.66
00013	1,682	3,232	60	2	62	0	20	8	610	852	42	3.84	0.50	37.75
00065	929	1,817	98	1	99	0	65	64	1,015	5	34	10.90	7.04	111.72
00177	780	1,560	92	0	92	0	92	64	1,249	0	28	11.79	8.21	160.13
00039	614	1,278	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00108	437	858	20	0	20	0	16	16	152	1	4	4.66	3.73	35.43
00170	327	736	48	0	48	0	29	25	472	57	19	13.04	6.79	128.24
00152	238	475	8	0	8	0	7	7	0	0	0	3.37	2.95	0.00
00127	231	473	4	0	4	0	2	2	10	0	2	1.69	0.85	4.23

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MARKETING - WHOLESALE (continued)														
00075	106	223	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00058	47	97	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00015	30	65	7	0	7	0	7	3	36	74	4	21.54	9.23	110.77
00028	30	62	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00140	22	46	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00026	11	23	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00100	8	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00138	6	13	1	0	1	0	0	0	0	0	1	15.36	0.00	0.00
00070	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00021	3	6	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00189	3	6	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00113	2	5	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00193	2	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
MARKETING - RETAIL														
Total	23,085	40,429	1,025	6	1,031	0	574	492	8,384	4,370	466	5.10	2.43	41.47
00013	6,388	10,058	226	3	229	0	84	81	948	216	145	4.55	1.61	18.85
00032	3,105	6,508	15	0	15	0	8	7	342	10	7	0.46	0.22	10.51
00108	3,090	5,995	119	0	119	0	92	92	2,517	22	27	3.97	3.07	83.97
00064	2,335	4,851	164	0	164	0	111	48	415	918	53	6.76	1.98	17.11
00170	3,100	4,337	166	0	166	0	106	103	3,095	3,185	60	7.65	4.75	142.72
00136	2,560	3,621	234	0	234	0	104	104	0	0	130	12.93	5.74	0.00
00024	1,331	2,768	42	3	45	0	34	34	758	3	11	3.25	2.46	54.77
00107	322	644	11	0	11	0	8	8	83	0	3	3.42	2.48	25.78
00058	282	587	4	0	4	0	2	2	86	0	2	1.36	0.68	29.30
00117	273	482	17	0	17	0	17	8	117	0	9	7.06	3.32	48.38
00123	211	394	17	0	17	0	4	4	21	0	13	8.64	2.03	10.67
00118	86	179	10	0	10	0	4	1	2	16	6	11.17	1.12	2.23
00113	2	5	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
MARKETING - NOT SEPARATED														
Total	2,189	4,570	81	1	82	0	29	13	455	168	54	3.59	0.57	19.91
00090	1,733	3,605	39	0	39	0	17	2	15	131	22	2.16	0.11	0.83
00111	310	653	19	0	19	0	5	5	165	0	14	5.82	1.53	50.54
00070	139	299	22	1	23	0	6	6	275	37	17	15.39	4.02	184.07

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
MARKETING - NOT SEPARATED (continued)														
00048	7	13	1	0	1	0	1	0	0	0	1	15.38	0.00	0.00
PIPELINE - LIQUID														
Total	6,020	13,978	231	3	234	0	81	71	1,869	156	145	3.35	1.02	26.74
00013	1,003	2,628	42	2	44	0	16	15	913	3	28	3.35	1.14	69.47
00038	156	1,600	7	0	7	0	0	0	0	0	0	0.87	0.00	0.00
00106	782	1,565	22	0	22	0	7	7	102	0	15	2.81	0.89	13.04
00111	549	1,173	33	0	33	0	1	1	7	0	32	5.63	0.17	1.14
00032	541	1,116	8	0	8	0	4	2	217	151	4	1.43	0.36	38.89
00107	538	1,079	14	0	14	0	10	10	56	0	4	2.59	1.85	10.38
00136	424	848	24	0	24	0	14	14	0	0	10	5.66	3.30	0.00
00118	378	786	22	1	23	0	3	3	112	0	20	5.85	0.76	28.50
00065	409	768	11	0	11	0	3	2	5	2	8	2.86	0.52	1.30
00060	291	553	5	0	5	0	0	0	0	0	5	1.81	0.00	0.00
00091	306	540	3	0	3	0	1	1	58	0	0	1.11	0.37	21.48
00055	124	235	8	0	8	0	1	1	4	0	7	6.81	0.85	3.40
00083	99	226	10	0	10	0	10	6	292	0	4	8.85	5.31	258.41
00170	107	220	2	0	2	0	1	1	50	0	1	1.82	0.91	45.50
00058	59	123	3	0	3	0	3	3	35	0	0	4.88	4.88	56.91
00023	61	116	1	0	1	0	0	0	0	0	1	1.72	0.00	0.00
00113	49	103	2	0	2	0	0	0	0	0	0	3.89	0.00	0.00
00092	36	75	3	0	3	0	3	1	5	0	2	8.00	2.67	13.33
00093	34	60	6	0	6	0	3	3	8	0	3	19.90	9.95	26.53
00137	21	49	3	0	3	0	0	0	0	0	0	12.24	0.00	0.00
00152	24	49	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00033	17	40	1	0	1	0	1	1	5	0	0	5.01	5.01	25.07
00108	11	24	1	0	1	0	0	0	0	0	1	8.33	0.00	0.00
00189	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
PIPELINE - GAS														
Total	22,925	45,823	924	30	954	2	481	220	4,273	1,252	642	4.16	0.97	18.65
00031	3,343	6,942	135	4	139	0	41	37	819	63	95	4.00	1.07	23.59
00131	3,090	5,868	45	2	47	0	24	14	173	358	23	1.60	0.48	5.90
00056	2,371	4,577	150	6	156	1	76	17	430	436	79	6.82	0.79	18.79
00078	2,260	4,356	97	1	98	0	20	20	609	0	78	4.50	0.92	27.96

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
PIPELINE - GAS (continued)														
00111	1,658	4,074	133	0	133	0	14	14	3	0	119	6.53	0.69	0.12
00054	1,628	3,334	86	2	88	0	45	45	627	0	43	5.28	2.70	38.21
00120	1,920	3,173	37	1	38	0	38	21	485	26	17	2.40	1.32	30.57
00104	1,475	3,024	46	1	47	0	47	5	57	0	42	3.11	0.33	3.77
00162	1,379	3,020	54	13	67	0	75	8	224	0	67	4.44	0.53	14.83
00030	1,266	2,480	53	0	53	0	53	21	377	25	32	4.27	1.69	30.40
00114	1,270	2,315	25	0	25	1	6	3	117	126	18	2.16	0.35	10.11
00064	692	1,500	35	0	35	0	27	13	333	131	8	4.67	1.73	44.41
00124	225	459	9	0	9	0	5	1	4	15	4	3.92	0.44	1.74
00170	124	254	6	0	6	0	0	0	0	0	6	4.73	0.00	0.00
00074	85	166	9	0	9	0	9	0	0	6	9	10.86	0.00	0.00
00043	67	133	2	0	2	0	0	0	0	0	2	3.01	0.00	0.00
00010	35	71	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00089	15	35	1	0	1	0	0	0	0	0	0	5.71	0.00	0.00
00094	11	20	1	0	1	0	1	1	5	66	0	10.00	10.00	50.00
00070	8	16	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00083	3	6	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
PIPELINE - NOT SEPARATED														
Total	4,097	8,027	101	3	104	0	42	32	410	93	63	2.59	0.80	10.22
00109	1,574	2,876	51	2	53	0	17	17	15	0	36	3.69	1.18	1.04
00024	1,056	2,196	16	1	17	0	11	7	186	31	6	1.55	0.64	16.94
00090	857	1,783	18	0	18	0	10	4	130	62	8	2.02	0.45	14.58
00123	610	1,172	16	0	16	0	3	3	23	0	13	2.73	0.51	3.92
00113	0	0	0	0	0	0	1	1	56	0	0	N/A	N/A	N/A
MARINE TANKER														
Total	777	2,771	24	0	24	0	16	16	634	0	8	1.73	1.15	45.76
00107	438	2,093	15	0	15	0	14	14	630	0	1	1.43	1.34	60.20
00106	339	678	9	0	9	0	2	2	4	0	7	2.65	0.59	1.18
MARINE INLAND														
Total	506	1,805	27	3	30	0	12	6	195	53	18	3.32	0.66	21.60

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

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MARINE INLAND (continued)														
00013	339	1,362	27	3	30	0	12	6	195	53	18	4.40	0.88	28.63
00107	84	277	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00106	83	166	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
MARINE - NOT SEPARATED														
Total	242	754	5	0	5	0	4	0	0	103	1	1.33	0.00	0.00
00032	88	434	5	0	5	0	4	0	0	103	1	2.30	0.00	0.00
00109	94	195	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00118	60	125	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
RESEARCH & DEVELOPMENT														
Total	9,189	18,324	165	14	179	0	69	22	234	565	108	1.95	0.24	2.55
00106	2,373	4,747	56	6	62	0	20	4	32	285	42	2.61	0.17	1.35
00042	1,415	2,656	13	1	14	0	3	1	13	16	10	1.05	0.08	0.98
00039	1,267	2,635	12	0	12	0	4	0	0	33	8	0.91	0.00	0.00
00109	798	1,652	20	0	20	0	7	7	72	0	13	2.42	0.85	8.72
00118	831	1,596	16	1	17	0	8	4	16	81	9	2.13	0.50	2.01
00090	751	1,552	22	4	26	0	20	2	22	70	6	3.35	0.26	2.84
00032	636	1,343	8	0	8	0	3	1	5	57	5	1.19	0.15	0.74
00065	363	599	11	1	12	0	2	2	10	0	10	4.01	0.67	3.34
00127	248	524	2	0	2	0	0	0	0	0	2	0.76	0.00	0.00
00107	255	506	1	1	2	0	1	0	0	10	0	0.79	0.00	0.00
00013	217	444	4	0	4	0	1	1	64	13	3	1.80	0.45	28.80
00177	28	56	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00058	7	14	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
GENERAL SERVICES														
Total	5,240	10,475	139	4	143	0	78	48	641	249	95	2.73	0.92	12.24
00127	1,298	2,602	5	0	5	0	1	1	4	0	4	0.38	0.08	0.31
00090	829	1,724	19	0	19	0	11	4	33	58	8	2.20	0.46	3.83
00032	650	1,363	8	0	8	0	0	0	0	0	8	1.17	0.00	0.00
00152	546	1,093	32	0	32	0	16	16	0	0	32	5.86	2.93	0.00
00042	569	1,070	14	1	15	0	8	2	6	110	6	2.80	0.37	1.12

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
GENERAL SERVICES (continued)														
00109	443	916	2	0	2	0	2	2	2	0	0	0.44	0.44	0.44
00065	436	764	17	1	18	0	6	6	222	0	12	4.71	1.57	58.12
00074	202	415	24	2	26	0	26	10	103	28	16	12.53	4.82	49.63
00170	124	252	16	0	16	0	7	5	257	53	9	12.72	3.97	204.29
00070	51	102	1	0	1	0	1	1	9	0	0	1.96	1.96	17.65
00013	56	100	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00193	17	35	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00158	10	21	1	0	1	0	0	1	5	0	0	9.62	9.62	48.08
00059	9	18	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
ADMINISTRATION, ENGINEERING, & OTHER														
Total	44,804	91,465	433	13	446	0	261	151	2,280	761	198	0.98	0.33	4.99
00106	7,213	14,427	47	3	50	0	28	23	261	109	22	0.69	0.32	3.62
00109	6,432	13,374	37	4	41	0	20	19	55	44	21	0.61	0.28	0.82
00024	4,301	9,018	58	4	62	0	42	15	497	46	20	1.38	0.33	11.02
00032	3,352	7,329	2	0	2	0	0	0	0	0	2	0.05	0.00	0.00
00118	2,578	5,234	44	1	45	0	24	21	574	73	21	1.72	0.80	21.93
00013	2,652	5,233	35	0	35	0	17	15	134	17	18	1.34	0.57	5.12
00090	2,535	4,958	7	0	7	0	3	1	1	22	4	0.28	0.04	0.04
00095	1,866	3,813	83	0	83	0	57	10	75	326	26	4.35	0.52	3.93
00065	1,927	3,371	9	1	10	0	5	5	95	20	5	0.59	0.30	5.64
00023	1,368	2,987	6	0	6	0	3	3	13	0	3	0.40	0.20	0.87
00039	1,230	2,558	3	0	3	0	3	2	92	4	2	0.23	0.16	7.19
00027	1,155	2,465	13	0	13	0	4	4	5	13	9	1.05	0.32	0.41
00042	1,279	2,404	5	0	5	0	2	1	6	19	3	0.42	0.08	0.50
00111	979	1,918	12	0	12	0	0	0	0	0	12	1.25	0.00	0.00
00064	849	1,783	27	0	27	0	22	13	127	55	5	3.03	1.46	14.25
00107	857	1,717	4	0	4	0	3	3	6	0	1	0.47	0.35	0.70
00123	468	958	5	0	5	0	1	1	77	0	4	1.04	0.21	16.08
00170	475	934	1	0	1	0	1	1	23	0	0	0.21	0.21	4.93
00152	354	771	1	0	1	0	0	0	0	0	1	0.26	0.00	0.00
00136	377	754	4	0	4	0	2	2	0	0	2	1.06	0.53	0.00
00177	318	661	6	0	6	0	6	4	221	0	2	1.82	1.21	66.87
00075	284	589	2	0	2	0	1	0	0	13	1	0.68	0.00	0.00
00058	271	564	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00191	156	542	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00074	260	508	3	0	3	0	3	0	0	0	3	1.18	0.00	0.00

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
ADMINISTRATION, ENGINEERING, & OTHER (continued)														
00140	243	505	5	0	5	0	3	3	4	0	2	1.98	1.19	1.58
00035	170	347	3	0	3	0	3	1	1	0	2	1.73	0.58	0.58
00179	157	327	1	0	1	0	1	1	1	0	0	0.61	0.61	0.61
00127	144	289	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00097	113	222	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00125	61	133	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00022	56	125	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00025	54	110	3	0	3	0	0	0	0	0	3	5.45	0.00	0.00
00034	43	89	2	0	2	0	2	2	11	0	0	4.49	4.49	24.72
00113	42	88	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00189	26	52	5	0	5	0	5	1	1	0	4	19.23	3.85	3.85
00026	24	50	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00062	24	45	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00093	21	38	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00193	15	31	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00100	16	31	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00077	15	29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00070	13	26	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00036	9	18	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00059	8	16	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00168	6	9	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00094	5	8	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00089	3	6	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY
OFFSHORE

1	2	3	4	5			6						7		
				Recordable Cases			Extent and Outcome of Injuries and Illnesses						Incidence Rates		
				a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.
								Lost Workday Cases							
Function	SIC	Number of Employees	Hours Worked Thousands	Injuries	Illnesses	Total	Fatalities	Total Cases	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatalities Plus Cases With Days Away From Work	Lost Workday-Days Away From Work
Exploration		304	831	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Produciton		4,612	13,147	195	7	202	1	119	118	3,742	0	81	3.07	1.81	56.93
Drilling	1381	603	1,272	33	0	33	0	20	11	282	0	13	5.19	1.73	44.34
Combined Func.		0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Total		5,519	15,249	228	7	235	1	139	129	4,024	0	94	3.08	1.71	52.78

Incidence Rates (Column 7) are calculated as follows:

Column 7(j) = $\frac{\text{Column 5(c)} \times 200,000}{\text{Column 4} \times 1,000}$ Column 7(k) = $\frac{\text{Column 6(d)} + \text{6(f)} \times 200,000}{\text{Column 4} \times 1,000}$ Column 7(l) = $\frac{\text{Column 6(g)} \times 200,000}{\text{Column 4} \times 1,000}$

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY
OFFSHORE

The following code will indicate the functions for which each company reported:

a - Exploration b - Production c - Drilling

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work	Function
ALL FUNCTIONS															
Total	5,519	15,249	228	7	235	1	139	129	4,024	0	94	3.08	1.71	52.78	
00024	2,824	8,729	80	0	80	0	69	69	1,975	0	11	1.83	1.58	45.25	abc
00027	141	585	6	0	6	0	5	5	427	0	0	2.05	1.71	145.98	ab
00058	1,142	2,377	39	0	39	0	17	7	387	0	22	3.28	0.59	32.56	bc
00065	416	1,415	33	0	33	0	23	23	588	0	10	4.66	3.25	83.11	bc
00102	85	166	4	0	4	0	3	3	16	0	1	4.82	3.61	19.28	b
00107	267	535	9	3	12	0	5	5	96	0	7	4.49	1.87	35.89	b
00114	24	47	1	4	5	0	1	1	227	0	4	21.06	4.21	956.19	b
00118	434	819	29	0	29	0	10	10	245	0	19	7.08	2.44	59.83	b
00140	11	212	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	a
00179	160	333	27	0	27	1	6	6	63	0	20	16.22	4.20	37.84	bc
00191	15	31	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	ab
00193	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	abc

REPORT OF OCCUPATIONAL INJURIES AND ILLNESSES FOR THE YEAR 1986
COVERING OPERATIONS SUBJECT TO OSHA RECORDKEEPING REQUIREMENTS ONLY
OFFSHORE

Co. No.	Number of Employees	Hours Worked Thousands	Recordable Cases: Injuries	Recordable Cases: Illnesses	Recordable Cases: Total	Extent and Outcome of Injuries and Illnesses: Fatalities	Lost Workday Cases: Total Cases	Lost Workday Cases: Cases Involving Days Away From Work	Lost Workday Cases: Number of Days Away From Work	Lost Workday Cases: Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Incidence Rates: Total Cases	Incidence Rates: Fatalities Plus Cases With Days Away From Work	Incidence Rates: Lost Workday-Days Away From Work
EXPLORATION														
Total	304	831	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00024	279	590	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00140	11	212	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00191	14	29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
PRODUCTION														
Total	4,612	13,147	195	7	202	1	119	118	3,742	0	81	3.07	1.81	56.93
00024	2,399	7,824	73	0	73	0	62	62	1,825	0	11	1.87	1.58	46.65
00058	712	1,482	13	0	13	0	4	3	255	0	9	1.75	0.40	34.41
00065	405	1,386	33	0	33	0	23	23	588	0	10	4.76	3.32	84.85
00118	434	819	29	0	29	0	10	10	245	0	19	7.08	2.44	59.83
00027	141	585	6	0	6	0	5	5	427	0	0	2.05	1.71	145.98
00107	267	535	9	3	12	0	5	5	96	0	7	4.49	1.87	35.89
00179	144	300	27	0	27	1	6	6	63	0	20	18.00	4.67	42.00
00102	85	166	4	0	4	0	3	3	16	0	1	4.82	3.61	19.28
00114	24	47	1	4	5	0	1	1	227	0	4	21.06	4.21	956.19
00191	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
DRILLING														
Total	603	1,272	33	0	33	0	20	11	282	0	13	5.19	1.73	44.34
00058	430	895	26	0	26	0	13	4	132	0	13	5.81	0.89	29.50
00024	146	315	7	0	7	0	7	7	150	0	0	4.44	4.44	95.24
00179	16	33	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
00065	11	29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

ANNUAL REVIEW OF FATAL INJURIES AS REPORTED BY THE PETROLEUM INDUSTRY TO THE AMERICAN PETROLEUM INSTITUTE FOR 1986

ON-DUTY FATALITIES

One hundred and one oil and gas companies and their subsidiaries, employing 263,226 workers, reported 12 on-duty fatal accidents during the year 1986. This is equivalent to one fatality for every 21,936 workers employed, compared with 18,730 in 1985.

Ten companies submitted detailed information on the causes of 11 of the fatal on-duty accidents.

API has published information on fatal accidents since 1933. Each incident is described in a brief narrative format and is intended to provide information which could be used to avoid similar accidents.

REFINING

1/17/86

One employee died when gasoline leaking from a fuel filter ignited and caused a flash fire that swept through an octane engine room. An electrical device was the suspect ignition source.

3/6/86

Two process unit operators beneath a slurry oil line died instantly when the welded line broke and deluged them with 670 degree Fahrenheit oil. System corrosion on the 34 year oil welded line had been monitored using measurements taken only from a 7/8" thick pipe which was joined to a 1/2" thick quickly thinning weld neck flange. Stress failure of the weld neck joint resulted in the deaths and subsequent three hour oil and vapor blaze.

10/31/86

A furnace dropped in pressure and then exploded while an employee was investigating the pressure drop.

GAS PIPELINE/PROCESSING

9/10/86

A loader/backhoe left in first gear ran over and crushed its operator who was underneath the vehicle attempting to start it by placing a screwdriver across the starter solenoid terminals. The screwdriver had previously proven more successful than battery jumper cables in starting the faulty ignition.

Prior to the accident, however, another employee had not only left the loader/backhoe in first gear, but left the shuttle lever in forward position with the throttle approximatley 25% open. When the operator beneath the vehicle successfully started the engine, the machine ran over and crushed his chest.

Field Note: In order to prevent this type of accident, the loader/backhoe when parked should have the shuttle (directional) lever in the neutral position, the hand brake set and the front end bucket lowered to the ground. Additionally, the loader/backhoe should be started while the operator is in the conventional operating position.

9/26/86

A semi-truck and trailer on a state highway struck a company pickup broadside when the driver of the pickup attempted to cross the highway where it intersected with the road he was travelling on. The driver of the pickup had stopped at the intersection and then continued without seeing the oncoming semi-truck and trailer.

PRODUCTION

5/23/86

A cherry picker crane tilted and fell on its side, crushing the employee under its cab. The employee had been learning how to operate the machine.

9/8/86

A high pressurized cleaning ball shot from a gas line ball receiver and hit an employee in the chest and head area after the employee removed the end plate. The barrel section had not been fully depressurized.

4/30/86

A senior electrician was changing a porcelain light socket in the generator room of an offshore production platform when he was electrocuted. The energy source had not been isolated from the fluorescent lighting fixture being worked on.

3/11/87

13,800 volts of electricity electrocuted a foreman whose jackhammer struck an underground cable. The foreman had not been informed of the location of all the lines within the work area.

MARKETING

9/14/86

While climbing from the sleeper berth to the passenger seat of his truck, the employee fell and the driver lost control. The truck swerved, turned on its side and threw the passenger from the vehicle to his death.

LIST OF RESPONDENTS OCCUPATIONAL INJURY AND ILLNESS REPORT

1.	00010	ALABAMA-TENN. NATURAL GAS CO.
2.	00106	AMOCO OIL CORPORATION
3.	00012	ASAMERA OIL (U.S.) INC.
4.	00013	ASHLAND OIL INC.
5.	00191	BHP PETROLEUM (A)
6.	00015	BP NORTH AMERICA PETROLEUM INC.
7.	00018	CABOT CORP (GAS PROC. & P.L.)
8.	00020	CALCASIEU REFINING COMPANY
9.	00021	CELERON OIL & GAS COMPANY
10.	00022	CELSIUS ENERGY COMPANY
11.	00023	CHAMPLIN PETROLEUM COMPANY
12.	00024	CHEVRON USA INC.
13.	00025	CHEYENNE LIGHT, FUEL & POWER CO.
14.	00026	CIBRO PETROLEUM PRODUCTS, INC.
15.	00027	CITIES SERVICE OIL & GAS CORP
16.	00028	COASTAL OIL COMPANY
17.	00186	COASTAL REF. & MRKTG. INC.
18.	00030	COLORADO INTERSTATE GAS CO.
19.	00031	COLUMBIA GAS TRANSMISSION CORP
20.	00168	COLUMBIA LNG CORP.
21.	00032	CONOCO INC.
22.	00033	COOK INLET PIPE LINE COMPANY
23.	00034	CROSS OIL & REFINING CO. OF AR
24.	00170	DIAMOND SHAMROCK REFG. & MKTG.
25.	00036	E. E. FOGELSON
26.	00037	EL PASO NATURAL GAS COMPANY
27.	00035	ENSERCH EXPLORATON INC.
28.	00038	EXPLORER PIPELINE COMPANY
29.	00039	EXXON CHEMICAL AMERICAS
30.	00042	EXXON RESEARCH & ENGINEERING
31.	00043	FARMLAND AND INDUSTRIES INC.
32.	00190	FRONTINER OIL & REFINING CO.
33.	00193	FUEL RESOURCES DEVELOPMENT
34.	00045	FUELCO
35.	00046	GOLDEN WEST REFINING COMPANY
36.	00158	HELLMAN PROPERTIES
37.	00048	HEWIT & DOUGHERTY
38.	00050	HUSKY/RMT PROPERTIES INC.
39.	00053	INDIANA FARM BUREAU COOP. ASSN.
40.	00054	K N ENERGY, INC.
41.	00055	KANEB PIPE LINE COMPANY
42.	00056	KANSAS POWER & LIGHT CO.
43.	00058	KERR MCGEE CORP.
44.	00059	LAKE RONEL OIL COMPANY
45.	00060	LAKEHEAD PIPE LINE COMPANY, INC.
46.	00062	LARIO OIL & GAS CO.
47.	00173	LION OIL COMPANY
48.	00064	LONE STAR GAS COMPANY
49.	00135	MACMILLAN PETROLEUM (AR) INC.

50.	00189	MACMILLAN RING-FREE OIL CO.
51.	00136	MAPCO PETROLEUM INC.
52.	00065	MARATHON
53.	00068	MERICHEM COMPANY
54	00074	MOUNTAIN FUEL RESOURCES INC.
55.	00075	MURPHY OIL USA INC.
56.	00077	NATIONAL HELIUM CORPORATION
57.	00078	NATURAL GAS PIPELINE CO. OF AMR
58.	00079	NAVAJO REFINING COMPANY
59.	00083	OHIO OIL GATHERING CORPORATION
60.	00131	PANHANDLE EASTERN PIPE LINE CO.
61.	00087	PARAMOUNT PETROLEUM CORP.
62.	00151	PEOPLES NATURAL GAS CO.
63.	00089	PETROLANE LOMITA GASOLINE CO.
64.	00090	PHILLIPS PETROLEUM COMPANY
65.	00091	PLANTATION PIPE LINE COMPANY
66.	00092	PORTAL PIPE LINE COMPANY
67.	00093	PORTLAND PIPE LINE CORPORATION
68.	00192	POWERLINE OIL CO.
69.	00176	PRIDE REFINING, INC.
70.	00094	PRODUCERS GAS EQUITIES, INC.
71.	00095	PUBLIC SERVICE CO. OF COLORADO
72.	00177	QUAKER STATE OIL REFINING CORP.
73.	00097	ROCK ISLAND REFINING CORP.
74.	00140	SANTA FE ENERGY COMPANY
75.	00100	SID RICHARDSON CARBON & GAS CO.
76.	00137	SINCLAIR OIL CORPORATION
77.	00102	SONAT EXPLORATION COMPANY
78.	00104	SOUTHERN NATURAL GAS COMPANY
79.	00138	SOUTHLAND OIL COMPANY
80.	00107	SUN COMPANY
81.	00108	TENNECO OIL COMPANY
82.	00152	TESORO PETROLEUM CORP.
83.	00109	TEXACO INC.
84.	00111	TEXAS EASTERN TRANSMISSION
85.	00162	TEXAS GAS TRANSMISSION CORP.
86.	00139	TOSCO CORPORATION
87.	00179	TRANSCO EXPLORATION COMPANY
88.	00113	TRUE
89.	00114	TRUNKLINE GAS COMPANY
90.	00115	U.S. INDUSTRIAL CHEMICALS CO.
91.	00116	U.S. OIL & REFINING CO.
92.	00117	UNION GAS SYSTEM, INC.
93.	00118	UNION OIL CO. OF CALIFORNIA
94.	00120	UNITED GAS PIPE LINE CO.
95.	00121	UNITED REFINING CO.
96.	00123	VALERO ENERGY CORP.
97.	00188	VULCAN REFINING COMPANY
98.	00070	WESTERN GAS PROCESSORS, LTD.
99.	00124	WESTERN GAS SUPPLY COMPANY
100.	00125	WEXPRO COMPANY
101.	00127	WITCO CHEMICAL CORP.

Order No. 852 - 19996